



ChovA

SISTEMAS DE IMPERMEABILIZACIÓN
Y AISLAMIENTO

LAROC S 150/

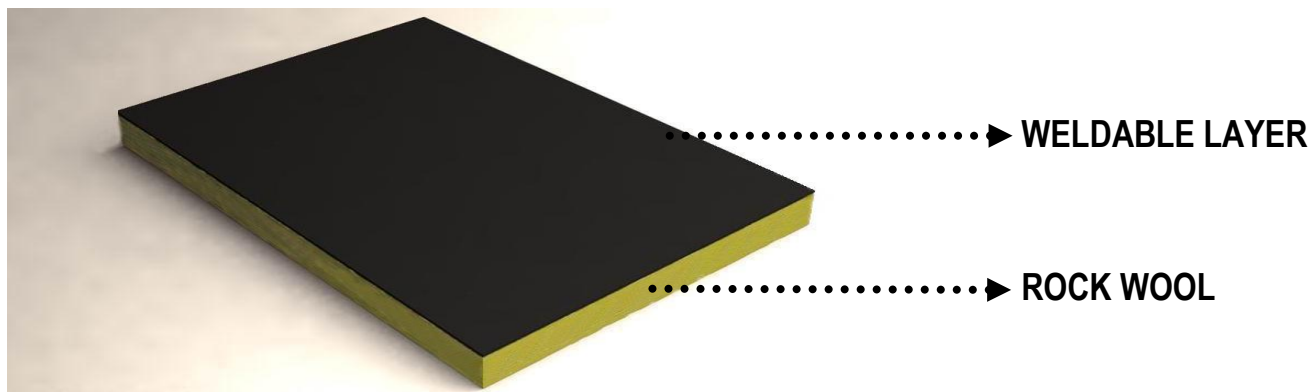
NON-WELDING ROCK WOOL INSULATING PANELS

TECHNICAL FILE Nº 81450 - REVIEW 25/09 - DATE: 25/09/2020

DESCRIPTION

Rigid high-density panel, made of waterproof rock wool. Of 150 kg/m³ of nominal density.

On the outside it has a bituminous layer of asphalt bitumen, protected by a hot-melt film, to allow the adhesion of the sheets, when welding it on the panel.



TECHNICAL FEATURES

| FEATURES | Standard UNE EN | Unit | S 150/4 | S 150/5 | S 150/6 | S 150/8 | S 150/10 |
|--|-----------------------|--------------------|---|---------|---------|---------|----------|
| Declared thermal conductivity (λ). At 10 °C | UNE-EN 12667/12939 | W/m K | 0,038 | | | | |
| Declared thermal resistance. At 10 °C | | m ² K/W | 1,05 | 1,30 | 1,55 | 2,1 | 2,60 |
| Thickness. (Tolerance \pm 3 mm) | UNE-EN 822/3 | mm | 40 | 50 | 60 | 80 | 100 |
| Length. (Tolerance \pm 2 %) | UNE-EN 822/3 | mm | 1.200 | | | | |
| Width. (Tolerance \pm 1,5 %) | UNE-EN 822/3 | mm | 1.000 | | | | |
| Squad. (Length / Width deviation) | UNE-EN 824 | -- | <5 mm/m | | | | |
| Flatness (Arrow) | UNE-EN 825 | -- | \leq 6 mm | | | | |
| Dimensional stability (23 °C/90 % HR) and (70 °C/50 % HR) | UNE-EN 1604 | % | Width ($\Delta\epsilon$) Length ($\Delta\epsilon_c$) \leq 0,0 | | | | |
| Tensile strength parallel to faces | UNE-EN 1608 | kPa | 160 | | | | |
| Tensile strength perpendicular to faces | UNE-EN 1607 | kPa | \geq 7.5 | | | | |
| Compression tension (σ_{10}) | UNE-EN 826 | kPa | \geq 50 | | | | |
| Deformation on point load | UNE-EN 12430 | N | \geq 450 | | | | |

Behavior towards water/humidity: Product that repels water, non-hygroscopic and with zero capillarity.

| | | | |
|--|--------------|-------------------|----------|
| Water absorption (By partial immersion) (Ws) | UNE-EN 12087 | kg/m ² | \leq 1 |
| Water vapor diffusion factor (μ) | -- | -- | 1,3 |

| | | | |
|---|--------------|----|-----------------|
| Reaction to fire. (Classification according "Euroclases") | UNE-EN 13501 | -- | F (Euroclass) * |
|---|--------------|----|-----------------|

* - F (Euroclass) *Not determined, by the presence of the asphalt layer.*

Provided information corresponds to data obtained in our own laboratories. This product will maintain these characteristics on average. ChovA, S.A. reserves the right to modify or cancel any parameter without notice. ChovA, S.A guarantee is only applying to the product quality. As for commissioning work, which do not participate, they must also meet the waterproofing requirements for the implementation, specified in the applied rules, both in membrane composition and fulfillment them. This technical data sheet will be void by subsequent revisions and, if in doubt, apply the latest revision.



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PRODUCT WITH CE MARK. UNE-EN 13162. MW EN 13162 -T5 -Ws

Acoustic behavior

Provides a notable attenuation to airborne and impact noise, especially on deck.

Acoustic absorption coefficient, α_S , for 50 mm thick panel. EN ISO 20354.

| | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|
| F (Hz) | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 |
| α_S | 0,08 | 0,15 | 0,29 | 0,55 | 0,67 | 0,85 | 0,99 | 1,08 | 1,13 |

| | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|
| F (Hz) | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
| α_S | 1,20 | 1,18 | 1,10 | 1,16 | 1,03 | 1,06 | 1,02 | 1,02 | 0,96 |

Equivalent absorption area, $\alpha_w = 0,75$ MHz. (Class C)

Chemical behavior

Rock wool fibers are chemically neutral, have a pH=7, do not react with acids or alkalis.

Biological behavior

Inorganic fibers, not being an environment conducive to the proliferation of fungi, parasites or other microorganisms.

Applications

Thermal and acoustic insulation for metal roofs, deck, and concrete, roofs and other non-passable roofs. Mechanically fixed to the support.

Use as an insulation layer, in a light roof, not passable, in one or more layers of insulating panels (*) mechanically fixed to the support, and finished with waterproofing membranes of modified asphalt bitumen (LBM) bonded by heat to the weldable panel, type LAROC S 150 /

() In the case of applying more than one layer of insulation, the rock wool panels of the upper layer must be weldable when heat-welded modified bitumen sheets (LBM) are applied on the asphalt bitumen layer of the insulation, type LAROC S 150 /. When the upper layer is non-weldable or not coated with asphalt bitumen, type LAROC N 150 /, the LBM sheets must be mechanically fixed according to the provisions of our DIT POLITABER FM MONOCAPA or BICAPA, available at www.chova.com. The base or intermediate insulation layers will be of the LAROC N 150 / type for heat applications or mechanically fixed.*

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